PREFACE

Identify Characteristics of the M68 CCO

Perform PMCS on the M68 CCO

Put the M68 CCO into Oper

Zero the M68 CCO

- Bore Sight
- Zeroed Weapon
- Unzeroed Weapon

Qualify with the M68 CCO

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M68 Close Combat Optic Identify Characteristics of the M68 CCO

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Qualify with the M68 CCO

Basic Marksmanship

M68 CCO Characteristics

Description : Electrical Red Dot sight for the M16/M4 series weapons

Optic: 100% Parallax Free, Anti-Reflective Coated Lens System (BEYOND 50 METERS)

Length: 10.24 inches (260mm) with Mount

Weight: 6.2 oz (175g)

Battery Life: 3-20 Days



M68 CCO



M68 CCO
Characteristics



M68 CCO Characteristics

The ARD reduces reflection caused by the sun which may be seen by the enemy. Threads on the ARD and front of M68 allows easy installation of the ARD



Suggested storage of lens covers while sight is in use

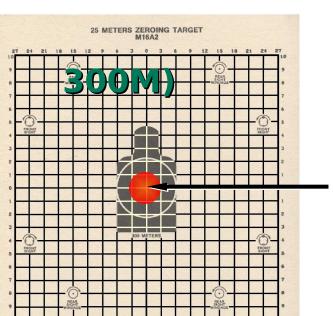
HAND TIGHTEN THE ARD TO THE M68 ONLY!

M68 CCO Characteristics

RED DOT SIZE: 2.2 cm AT 25M

8.8 cm AT 100M

26.4 cm AT 300M (9.75" AT



2.2 cm

26.4 cm (9.75 iթվ

2-AIM AT TARGET CENTER, ADJUST SIGHTS TO MOVE SHOT GROUP CENTER AS CLOSE AS POSSIBLE TO THE WHITE DOT IN CENTER OF THE TARGET.

3-AFTER COMPLETION OF THE 25 METER ZERO, ROTATE THE REAR SIGHT ELEVATION KNOB BACK ONE CLICK TO THE 300/800 METER MARK, THE WEAPON WILL BE ZEROED FOR 300 METERS.

NOTE: THE HIGHER THE ROTARY SWITCH SETTING THE BRIGHTER THE DOT

25 Meters

1-ROTATE REAR SIGHT ELEVATION KNOB TO THE 8/3 SETTING, THEN UP (RIGHT) ONE CLICK PAST THE 300 MARK, FOR ZEROING AT 25 METERS.

ZERO TARGET DATA

300 Meters

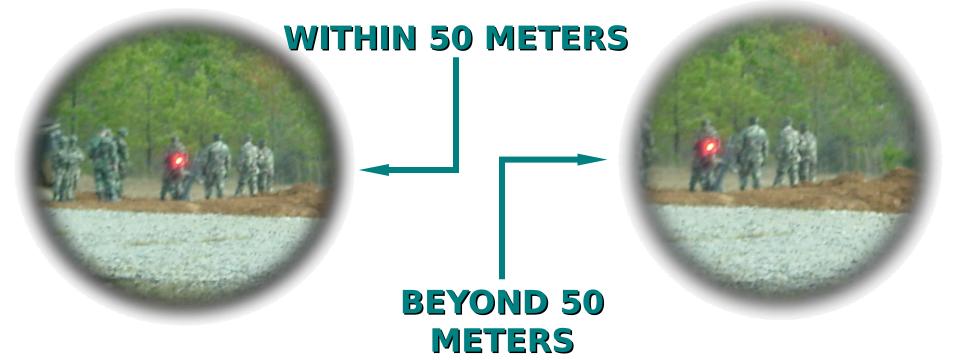
Operation

Reflex (non-telescopic) sight

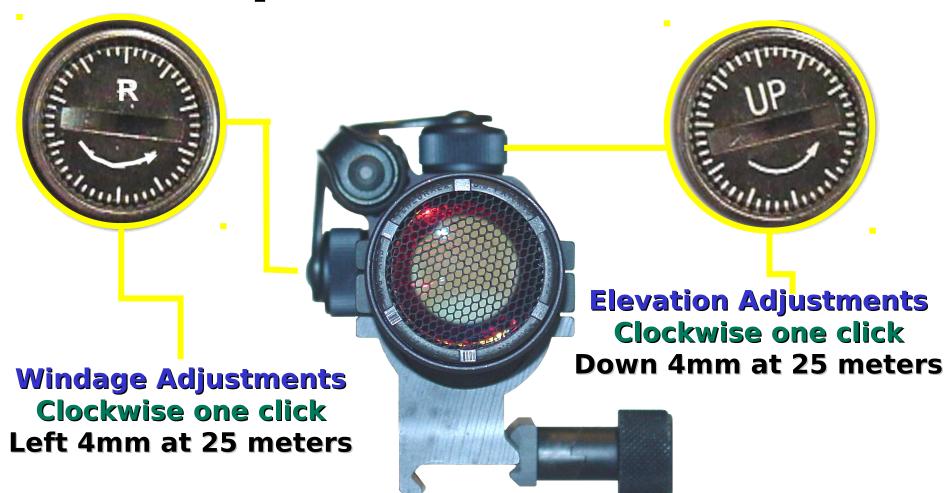
Place the red dot on the target for a hit on the target.

vo eyes open method of sighting centering or focusing required веуоно 50 метекѕ

If the operator sees the red dot on the target and uses good marksmanship techniques, the bullet will strike the target.



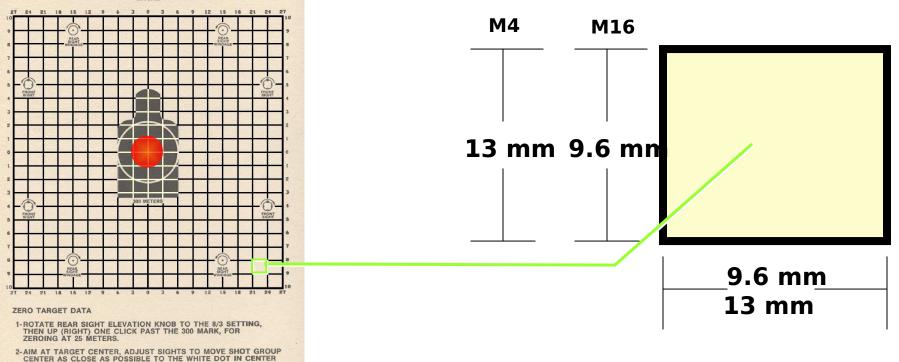
Mos cco Principals of Operation



Windage and Elevation one click = 4mm at 2!

Operation

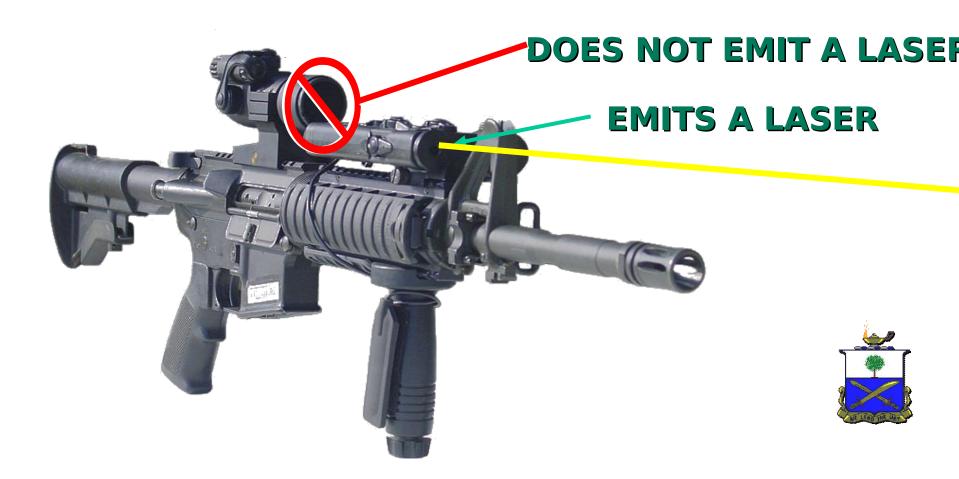
- 1. Elevation (1 click @ 25m = 4mm) (clockwise = down)
- 2. Windage (1 click @ 25m = 4mm) (clockwise = left)
- 3. Sight picture = Reddet Gerter M16A2 ZERO TARGET



NOTE: THE HIGHER THE ROTARY SWITCH SETTING THE BRIGHTER
THE DOT

3-AFTER COMPLETION OF THE 25 METER ZERO, ROTATE THE REAR SIGHT ELEVATION KNOB BACK ONE CLICK TO THE 300/800 METER MARK, THE WEAPON WILL BE ZEROED FOR 300 METERS.

Operation Operation



WARNING
IF ROTARY SWITCH IS SET HIGHER THAN 3 IT CAN BE SEEN AT
NIGHT.

M68 CCO PMCS



INSPECT SIGHT:

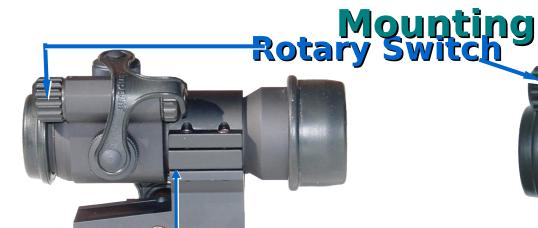


M68 CCO OPERATION M16A2 Mounting





M68 CCO OPERATION M4/MWS



M4/MWS use spacer



M16A2 use no spacer

Mount on same notc

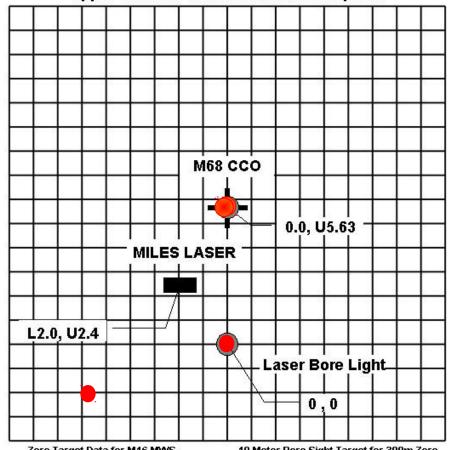
to maintain zero

HAND TIGHTEN TORQUE LIMITING KNOB TWO CI

MPR CCO ROKE SIGHT 10 Meter Boresight Tgt-M68 CCO Mtd on M4/M4A1

- 1. Zero borelight to the weapon
- 2. Gunner gets into a stable firing position and, with both eyes open, aims the M68 CCO at the crosshair.
- 3. Target person will then give the adjustments to be made to the M68 CCO based off the strike of the borelight laser. Borelight laser should fall within the circle provided on offset.
- 4. M68 CCO adjustment: 1 click = 2mm at 10m (5clicks per square on

Upper Receiver Rail with Half Moon Spacer



Zero Target Data for M16 MWS

10 Meter Bore Sight Target for 300m Zero (13 Dec 99)

- 1. Stabilize Weapon.
- 2. Aim CCO at the dot cross hair.
- 3. Adjust the CCO until the laser borelight is centered on its dot.

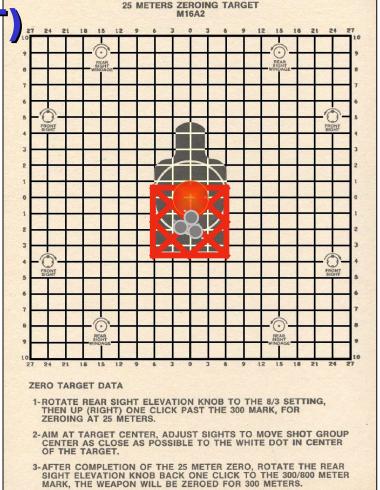
US Army ARDEC AMSTA-AR-CCL-A AMSTA-AR-FSF-R Picatinny Arsenal, NJ 07806

Grids are 1cm wide by 1cm high. Units must locally manufacture.

M68 CCO ZEROING (25 METER

DRAW IMPACT ZONE ON THE RGET

ROUNDS MUST STRIKE 1.5 CM BELOW CENTER MASS.



DOWN 1.5 cm

M68 CCO ZEROING (Zeroed

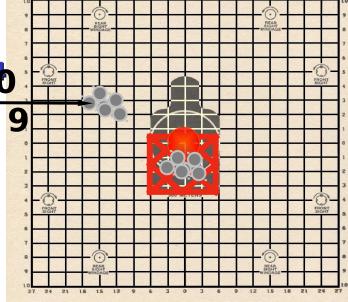
1. Adjust red dot center tweathems ight post

2. Fire three rounds at 25 meters and triangulate

3. Retighten torque knob

4. Shoot another three rounds and triangulate

5. MakmadiuetxAMPane repricator 10
6-5 until zerood DOWN 9



25 METERS ZEROING TARGET

ZERO TARGET DATA

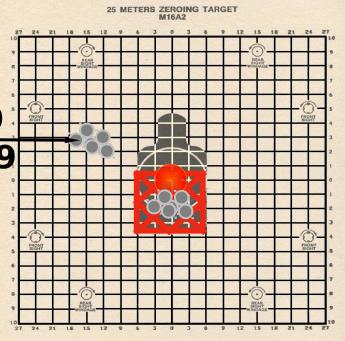
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- 2-AIM AT TARGET CENTER, ADJUST SIGHTS TO MOVE SHOT GROUP CENTER AS CLOSE AS POSSIBLE TO THE WHITE DOT IN CENTER OF THE TARGET.
- 3-AFTER COMPLETION OF THE 25 METER ZERO, ROTATE THE REAR SIGHT ELEVATION KNOB BACK ONE CLICK TO THE 300/800 METER MARK, THE WEAPON WILL BE ZEROED FOR 300 METERS.

M68 CCO ZEROING (Unzeroed

Weapon)

- 1. Bore sight the weapon with the borelight
- 2. Fire three rounds at 25 meters and triangulate
- 3. Retighten torque limiting knob
- 4. Shoot another three rounds and triangulate VANDIE DICH

5. Make adjustments and repeat steps 4
& 5 until zeroed DOWN



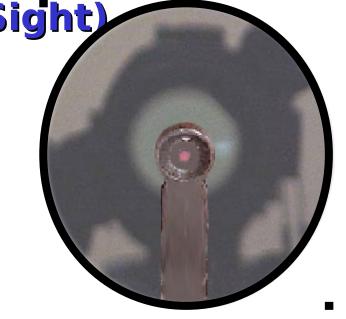
ZERO TARGET DATA

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M68 CCO ZEROING (Back-

up Iron Sight)

ADJUST THE M68 CCO UNTIL THE RED DOT IS **CENTERED ON THE** FRONT SIGHT POST AND CENTERED IN THE **REAR SIGHT** APERTURE, AFTER RED **DOT IS CENTERED FOLD BIS DOWN AND DISREGARD FRONT** SIGHT POST WHEN FIRING.



NOTE: THE BACK-UP
IRON SIGHT SHOULD
ALREADY BE ZEROED. IF
NOT THE BIS CAN BE
BORESIGHTED USING
THE BORLIGHT LASER.



PRACTICAL EXCERCISE

- 1. WALK THROUGH
- 2. PMCS
- 3. MOUNTING PROCEDURES
- 4. AN/PEQ-2A OPERATIONAL PROCEDURES





M68 CCO SUMMARY



REVIEW TEST

